Appl. No. 10/004,786 Amdt. Dated September 9, 2008 Reply to Office action of July 10, 2008 Attorney Docket No. P13026-US2 EUS/JP/08-1265

Amendments to the Claims:

This listing of claims replaces all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously Presented) Method for power saving in a mobile terminal comprising a wireless Network Interface Card (NIC) for accessing a wireless LAN (WLAN) having an access point (AP), wherein the WLAN uses HIPERLAN Type 2 or IEEE 802.11 power save procedures and wherein the mobile terminal uses an operating system supporting a plurality of device power states, said method comprising the steps of:

the mobile terminal requesting a transition from an active state to a less active state:

upon which request, the NIC sends a request to the AP that the mobile terminal be allowed to be entered into WLAN sleep state; and,

on receiving an acknowledgement from the AP, the mobile terminal enters WLAN sleep state.

(Cancelled)

3. (Previously Presented) Method for power saving in a mobile terminal comprising a wireless Network Interface Card (NIC) for accessing a wireless LAN (WLAN) in an ad hoc network, wherein the WLAN uses HIPERLAN Type 2 or IEEE 802.11 power save procedures and wherein the mobile terminal uses an operating system supporting a plurality of device power states, said method comprising the steps of:

the mobile terminal requesting a transition from an active state to a less active state;

upon which request, the NIC sends a request to a second mobile terminal in the ad hoc network that the mobile terminal be allowed to be entered into WLAN sleep state; and.

Appl. No. 10/004,786 Amdt. Dated September 9, 2008 Reply to Office action of July 10, 2008 Attorney Docket No. P13026-US2 EUS/JIP/08-1265

on acknowledgement from the second mobile terminal, the mobile terminal enters WLAN sleep state.

(Cancelled)

5. (Previously Presented) Method for power saving in a mobile terminal comprising a wireless Network Interface Card (NIC) for accessing a wireless LAN (WLAN), having an access point (AP) wherein the WLAN uses HIPERLAN Type 2 or IEEE 802.11 power save procedures and wherein the mobile terminal uses an operating system supporting a plurality of device power states, said method comprising the steps of:

the mobile terminal, due to inactivity, requests a transition from an active state to a less active state:

upon which request, the NIC sends a request to the AP that the mobile terminal be allowed to be disassociated or de-authenticated from the AP; and.

on acknowledgement from the AP, the mobile terminal enters a disassociated or de-authenticated state.

6. (Cancelled)

- (Previously Presented) Method according to claim 1 in which the
 mobile terminal is disassociated or de-authenticated from the AP without using a
 disassociation or de-authentication signal.
- 8. (Previously Presented) Method for power saving in a mobile terminal comprising a wireless Network Interface Card (NIC) for accessing a wireless LAN (WLAN) in an ad hoc network, wherein the WLAN uses HIPERLAN Type 2 or IEEE 802.11 power save procedures and wherein the mobile terminal uses an operating system supporting a plurality of device power states, said method comprising the steps of:

Appl. No. 10/004,786 Amdt. Dated September 9, 2008 Reply to Office action of July 10, 2008 Attorney Docket No. P13026-US2 EUS/JIP/08-1265

the mobile terminal, due to inactivity, requests a transition from an active state to a less active state:

upon which request the mobile terminal requests a second mobile terminal in the ad hoc network to be disassociated or de-authenticated from the ad hoc network; and,

on acknowledgement from the second mobile terminal, the mobile terminal enters a disassociated or de-authenticated state.

9. (Cancelled)

- 10. (Previously Presented) Method according to claim 3 in which the mobile terminal is disassociated or de-authenticated from the ad hoc network without using a disassociation or de-authentication signal.
- 11. (Previously Presented) Method according to claim 1 in which the mobile terminal associates or authenticates to the AP on transition from a less active state to a more active state.
- 12. (Previously Presented) Method according to claim 3 in which the mobile terminal joins an ad hoc network by associating or authenticating to the ad hoc network on transition from a less active state to a more active state.
- 13. (Previously Presented) Method for power saving in a mobile terminal comprising a wireless Network Interface Card (NIC) for accessing a wireless LAN (WLAN) having an access point (AP), wherein the WLAN uses HIPERLAN Type 2 or IEEE 802.11 power save procedures and wherein the mobile terminal uses an operating system supporting a plurality of device power states, said method comprising the step of:

the mobile terminal forcing the NIC down to a less active state at a point of time later than a time-out interval due to inactivity as defined in said power save procedures in order to lower the system state. Appl. No. 10/004,786 Amdt. Dated September 9, 2008 Reply to Office action of July 10, 2008 Attorney Docket No. P13026-US2 FUS/JP/08-1285

- 14. (Original) Method for power saving according to claim 13, in which the method also comprises the step of the mobile terminal forcing the NIC from D3 cold or D3 initialise to a higher power state, when activity is detected or when data is pending for transmission.
- 15. (Original) Method according to claim 13 in which a timer in the mobile terminal is used to initiate the mobile terminal to power down the NIC.
- (Original) Method according to claim 1 in which the NIC enters its lowest power consumption mode.

17. (Cancelled)

18. (Previously Presented) Method for power control in a mobile terminal comprising a wireless Network Interface Card (NIC) for accessing a wireless LAN (WLAN) in an ad hoc network, said network comprising at least a second mobile terminal, wherein the WLAN uses HIPERLAN Type 2 or IEEE 802.11 power save procedures and wherein the mobile terminal uses an operating system supporting a plurality of device power states, said method comprising the steps of:

the mobile terminal, in a low power mode, requests transition to an active state;

upon which request the NIC requests the second mobile terminal to be entered into WLAN active state; and,

the mobile terminal enters the WLAN active state on acknowledgement from the second terminal.

19. (Previously Presented) Method according to claim 5 in which the mobile terminal is disassociated or de-authenticated from the AP without using a disassociation or de-authentication signal.

Appl. No. 10/004,786 Amdt. Dated September 9, 2008 Reply to Office action of July 10, 2008 Attorney Docket No. P13026-US2 EUS/J/P/08-1265

20. (Previously Presented) Method according to claim 8 in which the mobile terminal is disassociated or de-authenticated from the ad hoc network without using a disassociation or de-authentication signal.

21. (Previously Presented) Method according to claim 5 in which the mobile terminal associates or authenticates to the AP on transition from a less active state to a more active state.

22. (Previously Presented) Method according to claim 8 in which the mobile terminal joins an ad hoc network by associating or authenticating to the ad hoc network on transition from a less active state to a more active state.

23. (Original) Method according to claim 3 in which the NIC enters its lowest power consumption mode.

24. (Original) Method according to claim 5 in which the NIC enters its lowest power consumption mode.

25. (Original) Method according to claim 8 in which the NIC enters its lowest power consumption mode.

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